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IN THE CLAIMS

 (currently amended) An apparatus used in production of semiconductor ingots using the Czochralski method comprising:

a bowl-shaped crucible suitable for containing a melt, the crucible having a solid wall;

a bowl-shaped susceptor at least partially disposed around and supporting the crucible, wherein the susceptor has a plurality of ventilation holes and wherein a gap exists between the wall of the crucible and the wall of the susceptor before heat is supplied; and

a process gas introduced above the crucible flowing in a downward direction, at least a portion of which enters the gap between the wall of the crucible and the wall of the susceptor and exits through the ventilation holes.

- 2. (original) The apparatus according to claim 1 wherein the susceptor is a graphite susceptor.
- 3. (original) The apparatus according to claim 1, wherein the susceptor contains a protective coating.
- 4. (original) The apparatus according to claim 3, wherein the protective coating is a silicon carbide coating.

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5. (original) The apparatus according to claim 1, wherein at least a portion of the ventilation holes are spaced vertically along at least a portion of the susceptor.